

Certified Validation Report

Part A: Provided by Validator

Audit Information:

Water Supplier Name: Calaveras County Water District – Copperopolis/Copper Cove PWS ID: CA0510017

System Type: Potable Audit Period: FY 19-20

Utility Representation: Brad Arnold, Damon Wyckoff, Jessica Self, Jesse Hampton, John Gomes

Validation Date: 12/22/20 Call Time: 1:30 PM Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 65

ILI: 6.15 Real Loss: 133.477 MG Apparent Loss: 7.863 MG

Non-revenue water as percent of cost of operating system: 8.9%

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

If not, rejected recommendations are included here.

Validator Information:

Water Audit Validator: Chris Hewes Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA

Validator Provided

Certified Validation Report Template

Part B: Provided by Utility

Water Supplier Name: Calaveras County Water District – Copperopolis/Copper Cove

Water Supplier ID Number: CA0510017

Water Audit Period: FY 19-20

Water Audit & Water Loss Improvement Steps:

Utility to provide steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

- First AWWA water audit completed for Copperopolis/Copper Cove.
- CCWD staff have continued to develop enhanced data collection that helps inform our understanding of improvements which need to be made to infrastructure and data management systems. Staff continues to work on implementing a water loss action plan which includes:
 - Testing and validating production meters.
 - Implementing a meter testing and replacement program.
 - Utilizing existing system models and data necessary to evaluate overall system performance.
 - Conversion of end-meters to Advanced Metering Infrastructure (AMI) using Automated Meter Reading (AMR) technologies planned for all customer meters within coming years - likely completed in FY 2021-2022. Will help transition CCWD from bi-monthly to monthly billing and significantly improve CCWD data availability and management efforts using Tyler Technologies (public sector) data software.
 - CCWD has implemented new tools (Smartsheet, Mobile MMS) to better track Customer Service Work Orders and AWWA water audit results, scores, and notes for referencing and use in public outreach.

Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audit and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Executive Name (Print)

Executive Position

Signature

Date

Michael Minkler

GM

DocuSigned by:

Michael Minkler

12/29/2020

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Utility Provided